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**Notice of Allowability**

Application No.

10/784,672

Examiner

Thuan N. Du

Applicant(s)

MAHER ET AL.

Art Unit

2116

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on August 18, 2005 and telephone interview on August 29, 2005.
2. ☒ The allowed claim(s) is/are 23-110 (renumbered as 1-88).
3. ☒ The drawings filed on 19 April 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 20050829.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
Thuan N. Du  
Primary Examiner  
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### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below.

Authorization for this examiner's amendment was given in a telephone interview with Mark A. Dalla Valle, Reg. No. 34,147 on August 29, 2005.

2. The application has been amended as follows:

In the Specification:

Please replace "This is a division of U.S. patent application no. 10/216,615, filed on August 9, 2002." at page 1, line 2 with

-- This is a division of application No. 10/216,615, filed on August 9, 2002, now Pat. No. 6,721,894, which is a division of application No. 09/779,150, filed on February 8, 2001, now Pat. No. 6,694,443 B1, which is a division of application No. 09/570,155, filed on May 12, 2000, now Pat. No. 6,343,363, which is a continuation of application No. 08/777,772, filed on Dec. 9, 1996, now Pat. No. 6,088,807, which is a division of application No. 08/310,895, filed Sep. 22, 1994, now Pat. No. 5,630,143, which is a continuation of application No. 07/858,579, Mar. 27, 1992, abandoned --.

### *Reasons for Allowance*

3. The following is an examiner's statement of reasons for allowance:

Jones et al. [Jones], U.S. Patent No. 4,750,112, discloses a data processing system including a dual pipeline, an instruction pipeline (IP) and an execution pipeline (EP), for executing program instructions. These two pipelines are operated in parallel manner under

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normal condition. However, under exception conditions, and under controlled of a control unit, one of the pipelines can operate while the other is halted.

Ohtsuka et al. [Ohtsuka], U.S. Patent No. 5,297,263, discloses a microprocessor having a plurality of pipelined stages. When an occurrence of an exception code is detected at a given stage, the given stage is temporarily stopped. The exception code is then transferred to a special stage for execution.

Applicant's claimed invention distinguishes over the prior art for the following reasons. The claims are allowable over the prior art of record because none of the references, either alone or in combination, discloses or renders obvious the apparatus including, among other circuitries, a plurality of subcircuits including pipeline subcircuitry, having a first portion and a second portion, responsive to a first clock signal having active and inactive states by selectively operating on one or more of a plurality of incoming instructions for data processing; control circuitry coupled to a plurality of subcircuits and responsive to one or more local control signals by providing one or more clock control signals having one or more respective assertion and de-assertion states including one or more second assertion and de-assertion states corresponding to said one or more first selected assertion and de-assertion states of the one or more local control signals with the second selected assertion and de-assertion states following reception of the power management instruction; and clock circuitry coupled to said control circuitry and said plurality of subcircuits, and responsive to said one or more clock control signals by providing at least a first clock signal with said first clock signal inactive state corresponding to said one or more second selected assertion and de-assertion states of said one or more clock control signals.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

*Conclusion*

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuan N. Du whose telephone number is (571) 272-3673. The examiner can normally be reached on Monday-Friday: 9:00 am - 6:00 pm, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne H. Browne can be reached on (571) 272-3670.

Central TC telephone number is (571) 272-2100.

The fax number for the organization is (571) 273-8300.

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).



Thuan N. Du  
August 29, 2005